Remarks

Claims 1-20 are pending and are in condition for allowance. Claims 1, 4, 9, 10, 12, 14, 17 and 20 have been amended in the manner described below, antecedent basis therefore existing, for instance, at page 10, lines 14-16 of the specification.

The priority claim has been corrected in the manner suggested at paragraph 1 of the Action.

An application data sheet is provided in the manner suggested at paragraph 2 of the Action.

The Examiner objected to Drawings because element numbers 24, 28, 30 and 34b where referred to in the specification but where not shown in figure 2. With this amendment, Applicant has included a corrected figure 2 that includes element numbers 24, 28, 30 and 34b. The drawings were also objected to because the labels (2a) and (2b) were referred to in the specification but where not shown in figure 2. With this amendment, Applicant has amended the specification to remove the references to label (2a) and label (2b).

Enclosed is a Supplemental Information Disclosure Statement.

The provisional double patenting rejection is recognized, but no response appears necessary at this time.

The rejections under Section 102(b) and Section 103 with respect to Warwick '505 are respectfully traversed. The present invention provides a chest compression apparatus that includes, *inter alia*, a mechanism (e.g., bladder) for applying a force to the thoracic region, and a mechanism (including a rotating blade valve), for supplying pressure pulses of pressurized air to the bladder, the pulses having a sinusoidal wave form.

As discussed in the present specification, Warwick '505 (Applicant's own original patent in this area) describes a chest compression apparatus having a "large bore rectangular port" rotary valve of a type that delivers a sharply spiked air pulse, such that the slope (rise time) of the pulse is defined as being at least twice as fast as that of a sinusoidal wave of the same frequency and amplitude.

Applicant's present use of a rotating blade valve to provide a pulse having a significantly different wave form, is neither taught nor suggested by Warwick '505, nor in turn, are the benefits to be derived therefrom. A rotating valve of this invention can be used, for instance, to establish and determine the rate and duration of air pulses entering the bladder from the pressure side, while also allowing air to evacuate the bladder on the depressurizing side. In turn, an apparatus of the present invention can be manufactured and sold for considerably less than the device of Warwick '505, and can be provided in a form that is more modular and portable than existing devices, while providing performance that is comparable or greater than those previous devices. Moreover, the use of substantially sinusoidal wave forms itself provides therapeutic

advantages over the wave forms of Warwick '505, as described at length in the present specification.

The rejections under Section 102(e) and 102 with respect to Van Brunt are respectfully traversed. Putting aside its other various differences, though the device of Van Brunt is purported to achieve sinusoidal wave forms, the reference itself fails to teach or suggest the use of a "fan" or rotating blade valve of the present invention. The Action itself ignores this key feature, and focuses instead on the general use of "valve" (30), as at column 5, lines 36-41, where such a valve is exemplified as being either a solenoid valve, stepper driven valve, magnetic flapper valve, or cone-driven valve. As used in the device of Van Brunt, it is clear that these valves are each operated in an "on/off" manner, and thereby are either "open or closed" with respect to air flow. This can be compared to the present invention, in which the use of a rotating blade over the air entry and exit ports provides a continual gradation of open and closed positions as the blade rotates, with the ports fully open and closed for only relative instants during that cycle. In turn, Applicants are indeed able to achieve a substantially sinusoidal wave form, of the type sought by Van Brunt, yet using a rotating blade valve that is itself different than those of Van Brunt, and that provides a variety of direct and ancillary benefits described above and in the instant specification.

Hence, reconsideration and allowance of all pending claims at an early date is

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